CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ
BSCIC
ISO 9001 REGISTERED

Job No.: CTCE/BBMP/PVB/W.No.08/CSR-01/857b/CEMENT/2018-19 Date: 20.01.2019

TEST REPORT ON CEMENT

*** Customer**	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
*** Agency**	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
*** Name of Work**	:	Improvements of roads, drains and culverts at Kodigehalli and surroundings at Kodigehalli Ward No.08, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
*** Sample ID**	:	Cement
Sample Received on	:	18.01.2019
Period of Testing	:	18.01.2019 to 20.01.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	27.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	175 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	360 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Note:

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Job No.: CTCE/BBMP/PVB/W.No.08/CSR-01/857b/SAND-Gradation/2018-19 20.01.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
* Agency	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
* Name of Work	:	Improvements of roads, drains and culverts at Kodigehalli and surroundings at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2007)
Sample Received On	:	18.01.2019
Date of Testing	:	20.01.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.50	90-100	90-100	90-100	95-100
2.36	82.00	60-95	75-100	85-100	95-100
1.18	60.50	30-70	55-90	75-100	90-100
600 Micron	37.90	15-34	35-59	60-79	80-100
300 Micron	18.10	5-20	8-30	12-40	15-50
150 Micron	6.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

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Job No.: CTCE/BBMP/PVB/W.No.08/CSR-01/857b/AGG/GR/2018-19 20.01.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
* Agency	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
* Name of Work	:	Improvements of roads, drains and culverts at Kodigehalli and surroundings at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	18.01.2019
Date of Testing	:	20.01.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.48	95-100	85-100
20	34.24	30-70	0-20
10	14.04	10-35	0-5
4.75	1.98	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
*** Agency**	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
*** Name of Work**	:	Improvements of roads, drains and culverts at Kodigehalli and surroundings at Kodigehalli Ward No.08, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
*** Sample ID**	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	18.01.2019
Date of Testing	:	20.01.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.30	95-100	85-100
10	38.18	25-55	0-20
4.75	5.02	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/PVB/W.No.08/Steel/2018-19 20.01.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
* Agency	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
* Name of work	:	Improvements of roads, drains and culverts at Kodigehalli and surroundings at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	20.01.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	510	551	13.05	O.K	O.K

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Job No.: CTCE/BBMP/PVB/W.No.08/Steel/2018-19 20.01.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
* Agency	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
* Name of work	:	Improvements of roads, drains and culverts at Kodigehalli and surroundings at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Samples ID	:	10mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	20.01.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	514	555	13.15	O.K	O.K

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TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
* Agency	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
* Name of work	:	Improvements of roads, drains and culverts at Kodigehalli and surroundings at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	20.01.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	519	561	13.35	O.K	O.K

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Job No.: CTCE/BBMP/PVB/W.No.08/CSR-01/857b/Cube/2018-19 05.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
* Agency	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
* Name of the work	:	Improvements of roads, drains and culverts at Kodigehalli and surroundings at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.02.2019	05.03.2019	8.125	499.3	22.19
2	05.02.2019	05.03.2019	8.260	516.4	22.95
3	05.02.2019	05.03.2019	8.380	526.5	23.40

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
* Agency	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
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* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.02.2019	05.03.2019	8.115	480.5	21.36
2	05.02.2019	05.03.2019	8.223	513.4	22.82
3	05.02.2019	05.03.2019	8.390	522.7	23.23

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
* Agency	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
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* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.02.2019	05.03.2019	8.288	476.6	21.18
2	05.02.2019	05.03.2019	8.399	502.4	22.33
3	05.02.2019	05.03.2019	8.405	516.3	22.95

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
* Agency	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
* Name of the work	:	Improvements of roads, drains and culverts at Kodigehalli and surroundings at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.02.2019	05.03.2019	8.112	475.5	21.13
2	05.02.2019	05.03.2019	8.202	492.8	21.90
3	05.02.2019	05.03.2019	8.395	511.7	22.74

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Job No.: CTCE/BBMP/PVB/W.No.08/CSR-01/857b/Cube/2018-19 06.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
* Agency	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
* Name of the work	:	Improvements of roads, drains and culverts at Kodigehalli and surroundings at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	06.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.02.2019	06.03.2019	8.366	488.3	21.70
2	06.02.2019	06.03.2019	8.280	498.6	22.16
3	06.02.2019	06.03.2019	8.406	513.2	22.81

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/PVB/W.No.08/CSR-01/857b/Cube/2018-19 06.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
* Agency	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
* Name of the work	:	Improvements of roads, drains and culverts at Kodigehalli and surroundings at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	06.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.02.2019	06.03.2019	8.399	475.5	21.13
2	06.02.2019	06.03.2019	8.406	516.3	22.95
3	06.02.2019	06.03.2019	8.283	524.6	23.32

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/PVB/W.No.08/CSR-01/857b/Cube/2018-19

06.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
* Agency	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
* Name of the work	:	Improvements of roads, drains and culverts at Kodigehalli and surroundings at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	06.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.02.2019	06.03.2019	8.115	504.6	22.43
2	06.02.2019	06.03.2019	8.287	516.5	22.96
3	06.02.2019	06.03.2019	8.366	528.9	23.51

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
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* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	06.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.02.2019	06.03.2019	8.112	505.4	22.46
2	06.02.2019	06.03.2019	8.230	525.8	23.37
3	06.02.2019	06.03.2019	8.337	539.8	23.99

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Job No.: CTCE/BBMP/PVB/W.No.08/CSR-01/857b/Cube/2018-19 07.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
* Agency	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
* Name of the work	:	Improvements of roads, drains and culverts at Kodigehalli and surroundings at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.02.2019	07.03.2019	8.336	493.8	21.95
2	07.02.2019	07.03.2019	8.405	510.4	22.68
3	07.02.2019	07.03.2019	8.229	522.8	23.24

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* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.02.2019	07.03.2019	8.356	503.2	22.36
2	07.02.2019	07.03.2019	8.395	513.8	22.84
3	07.02.2019	07.03.2019	8.415	538.5	23.93

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* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.02.2019	07.03.2019	8.095	480.7	21.36
2	07.02.2019	07.03.2019	8.117	511.2	22.72
3	07.02.2019	07.03.2019	8.229	521.8	23.19

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* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.02.2019	07.03.2019	8.289	480.5	21.36
2	07.02.2019	07.03.2019	8.362	493.6	21.94
3	07.02.2019	07.03.2019	8.406	512.8	22.79

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Job No.: CTCE/BBMP/PVB/W.No.08/CSR-01/857b/Precast Slab/2018-19 27.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
* Agency	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
* Name of work	:	Improvements of roads, drains and culverts at Kodigehalli and surroundings at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	Precast Slab (100mm thick)
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	25.02.2019
Date of Testing	:	27.02.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.405	2515.42	1.64	0.961	30.25	15.41	16.64	17.31	21.64
2	50.00	83.00	0.415	2546.48	1.66	0.963	32.60	16.60	17.93	17.27	21.59
3	50.00	80.00	0.403	2565.58	1.60	0.957	33.85	17.24	18.62	17.81	22.27

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Job No.: CTCE/BBMP/PVB/W.No.08/CSR-01/857b/Precast Slab/2018-19 27.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

*** Customer**	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
*** Agency**	:	**Sri. P. Vijay Babu,** #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore - 560086.
*** Name of work**	:	Improvements of roads, drains and culverts at Kodigehalli and surroundings at Kodigehalli in Ward No.08, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
*** Sample ID**	:	Precast Slab (250mm thick)
*** Grade of Concrete**	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	25.02.2019
Date of Testing	:	27.02.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.392	2527.14	1.58	0.955	33.25	16.93	18.29	19.16	23.95
2	50.00	80.00	0.399	2540.11	1.60	0.957	33.95	17.29	18.67	17.87	22.33
3	50.00	81.00	0.405	2546.48	1.62	0.959	34.65	17.65	19.06	18.28	22.85

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